



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

December 13, 2017

Lisa Amadio  
Mason Chemical Company  
2744 E. Kemper Road  
Cincinnati, OH 45241

Subject: Notification per PRN 98-10 – To update label language  
Product Name: Maquat<sup>®</sup> MC1412-50-S  
EPA Registration Number: 10324-45  
Application Date: November 16, 2017  
Decision Number: 536133

Dear Ms. Amadio:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you have any questions, you may contact Emilia Oiguenblik by phone at 703 347 0199, or via email at [Oiguenblik.emilia@epa.gov](mailto:Oiguenblik.emilia@epa.gov) or Eric Miederhoff by phone at 703 347 8028, or via email at [Miederhoff.eric@epa.gov](mailto:Miederhoff.eric@epa.gov).

Sincerely,

A handwritten signature in blue ink that reads "E. Miederhoff".

Eric Miederhoff  
Product Manager 31  
Regulatory Management Branch I  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

# MAQUAT<sup>®</sup> MC1412-50-S

*(Note to Reviewer: Marketing claims may be used on the front panel.)*

## NOTIFICATION

10324-45

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

**ACTIVE INGREDIENTS:**

Alkyl (50%<sub>C14</sub>, 40%<sub>C12</sub>, 10%<sub>C16</sub>)

dimethyl benzyl ammonium chloride ..... 50.00%

**OTHER INGREDIENTS:** ..... 50.00%

**TOTAL:** ..... 100.00%

12/13/2017

{Weight Approx. 8.09 lbs./gal.}

**KEEP OUT OF REACH OF CHILDREN  
DANGER {PELIGRO}**

{See [{left} {back} {side} {right} {insert} {panel} {of label} {below}] for {additional} {precautionary statements}{and}{or}{first aid}}.

*(Note to Reviewer: First Aid may only appear on different area of the container label if the Front Panel is less than 12 square inches in total.)*

**FIRST AID**

In case of emergency, call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

**IF ON SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

**IF SWALLOWED:** Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call a poison control center or doctor immediately for treatment advice.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

{For [{chemical} {and} {or} {medical} {and} {or} {environmental}] emergencies, call {insert name and/or number of emergency contact} {hours of operation} {24 hours a day} {7 days a week}}.



{See {additional} {sheet} {insert} {inside} {outer container} for {other} {directions for use} {information} {claims} {organisms}.}

Net Contents:

{{Batch} {Lot} No} {Manufacturing Date}:  
{Product of USA} {Made in the USA}

## TABLE OF CONTENTS

(Note to Reviewer: The Table of Contents will not be on any label. This is for our customer's reference only.)

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## MARKETING CLAIMS

(Note to Reviewer: Marketing text is considered optional. Commas and the words "and" "or" can be added to phrases to make text grammatically correct.)

### {LOCATIONS/SURFACES}

(Note to Reviewer: The locations/surfaces have been grouped for space purposes only; they can be used individually or grouped together in any order however at least **one** location/surface must appear on the label. In the case where one or more location/surface is chosen, an "and" "&" "or" may be used to link locations/surfaces.)

This product is for use in (insert location)  
For use {in} {on} (insert location/surface).

### {LOCATIONS}

- Fountains
- Ponds
- Swimming pools
- Whirlpools, spas, hot tubs

### SWIMMING POOL TREATMENT MARKETING CLAIMS

(Note to Reviewer: The following marketing claims may be used with the prefix "This product" or "This product is {a} {an}").

- Algaecide
- Compatible with most {swimming pool} chemicals {used in pool water} {and} {when used as directed,} is not harmful to the metal, paint, plastic or non-porous glazed tile {surfaces} {of the swimming pool}.
- Effective against the growth of algae.
- Especially effective against growth of algae and being non-volatile, aids in maintaining pool water clarity and sparkle.
- For control of algae growth in swimming pools, {outside} spas/whirlpools/hot tubs {baths}, {containerized} {decorative} fountains.  
(Note to Reviewer: For use in CA, the words "cContainerized" and "outside" must be used in CA.)
- For control of algae {and algae slime} growth in swimming pools, {outside} spas/whirlpools/hot tubs {baths}, {containerized} {decorative} fountains. (Not for use in CA.)
- Helps inhibit the growth of unsightly algae.
- Keeps pool water sparkling, clear of visible green and blue-green algae, and green brown colors.
- Keeps pool water sparkling, clear of visible green and blue-green algae, {slime} and green brown colors. (Not for use in CA.)
- Kills and prevents algae.
- The residual effectiveness of this algaecide tends to stabilize the total chemical treatment system.
- This product supports your overall pool chemical maintenance program, offering residual effectiveness that protects your pool against algae formation while keeping your pool water sparkling clear.
- {This product is} formulated to complement swimming pool water being treated with normal chlorine systems.
- This product is effective in controlling the growth of the following types of algae: *Chlorella pyrenoidosa* (green algae), *Phormidium indundatum* (blue-green algae) and *Phormidium ritzii*.
- This product protects the unattended pool when you're away (refer to Vacation Treatment section in the directions for use).
- To control algae use this water treatment microbiocide as directed.
- To control algae {and bacterial slimes}, use this water treatment microbiocide as directed. (Not for use in CA.)
- When used as directed will help improve the appearance and cleanliness of the [{swimming pool water} {and} {fountain water}].

## GENERAL MARKETING CLAIMS

*(Note to Reviewer: The following marketing claims may be used with the prefix "This product" or "This product is {a} {an}").*

- Is non-staining when used as directed.
- Is non-staining.
- Mold and mildew and algae stain remover
- Will not damage tile, concrete, metal or plastics.

## PACKAGING CLAIMS

- Concentrate{d}.
- 50% Concentration
- Easy to use.
- Economy size. *(Note to Reviewer: To be used on applicable container)*
- Is an economical concentrate.
- 0.2 gal. treats 50,000 gal.. *(For swimming pool applications.)*
- Makes *(insert value)* [{Gal.} {Quarts} {Containers}]
- This [{container} {bottle}] is made of {at least} (x) % post-consumer recycled plastic.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

*(Note to Reviewer (General Considerations): Numbered instructions will be used if label space permits, otherwise may appear in paragraph format. Unit abbreviations can be spelled out. When choosing optional text, appropriate punctuation can be inserted or deleted. Equivalent use dilution ratios may be substituted within the directions.)*

{Please read entire label and use strictly in accordance with precautionary statements and directions.}

## ALGAE TREATMENT

**SWIMMING POOLS:** This product is compatible with most chemicals normally used in swimming pool maintenance; however, in its concentrated form, this chemical must not come in contact with high concentrations of chlorine or any other oxidizer. **DO NOT MIX THIS PRODUCT AND CHLORINE OR ANY OTHER OXIDIZER TOGETHER** before adding to the pool. These chemicals must be handled separately.

This product was formulated to complement most swimming pool sanitizers. This product is not a stand-alone product, it must be used with either halogen based or non-halogen based pool sanitizers. When using other products as outlined in the directions for this product, always follows directions on those products.

This product requires no special equipment for treating swimming pool water. The correct use dilution may be added directly to the pool in any spot or added to the water-circulation equipment. This product works best when added directly to the pool water by pouring around entire outside perimeter of pool.

Do not allow swimming in pool for at least 15 minutes after this product has been applied.

Ensure all pool equipment is working properly. Backwash the filter system following manufacturer's directions. Adjust pH between 7.2 – 7.6. Adjust chlorine residual to 1 – 3 ppm. In a chlorine treated pool, add stabilizer to establish a minimum level of 40 – 50 ppm to reduce the degradative effects of sunlight upon the chlorine residual. Check for metals and if present add stain and scale inhibitor to prevent staining of pool surface due to metals. Check chlorine residual and adjust to 1 – 3 ppm.

### TO DETERMINE POOL CAPACITY:

**Rectangular Pools:** Length (*times*) width (*times*) average depth (in feet) (*times*) 7.5 (*equals*) gal..

**Round and Oval Pools:** Long diameter (*times*) short diameter (*times*) average depth (in feet) (*times*) 5.9 (*equals*) gal.

(Note to Reviewer: Appropriate dilution rates may be substituted as long as they are equivalent dilution rates.)

{SWIMMING POOL TREATMENT DILUTION TABLE: (Note to Reviewer: This DILUTION TABLE is optional.)}

Swimming Pool Capacity gal. of Water	Initial Treatment	Maintenance Dose Booster Dose
5,000	2.6 oz.	0.65 oz.
10,000	5.1 oz.	1.3 oz.
15,000	7.7 oz.	1.9 oz.
20,000	10.4 oz.	2.6 oz.
25,000	13.0 oz.	3.25 oz.
30,000	15.6 oz.	3.9 oz.
40,000	20.8 oz.	5.1 oz.
50,000	26.0 oz.	6.4 oz.

**INITIAL APPLICATION FOR SWIMMING POOLS {{(USING)} {(HALOGENATED)} {(NON-HALOGENATED)}} {SANITIZERS}}:**

1. Backwash the filter thoroughly.
2. Vacuum algae debris and thoroughly brush pool.
3. Add 26 oz. of this product per 50,000 gal. of water {(5.1 oz. this product per 10,000 gal. of water)} {(or equivalent use dilution)}.
4. Vacuum pool after 24 hours to remove dead algae.
5. If algae is still visible repeat dose {(steps 3 & 4)} as necessary until pool is free of visible algae.
6. Once algae are under control, clean filter and return to normal operation.

**MAINTENANCE APPLICATION:** Add 6.4 oz. of this product per 50,000 gal. of water {(or equivalent use dilution)} every 3 – 5 days. If high temperatures prevail or pool has unusually heavy use, add maintenance dose more frequently.

**BOOSTER APPLICATION:** Add 6.4 oz. of this product per 50,000 gal. of water {(or equivalent use dilution)} after a heavy or prolonged rainfall or when there is a heavy bathing load.

The directions should be followed even when the pool is not in use. If algae growth is noticeable, apply initial dose.

**VACATION TREATMENT:** When you are going to be away for one week or more, add 5.1 oz. of this product per 10,000 gal. of water {(or equivalent use dilution)} for every week unattended. Pour product around the edges of the shallow end of the pool, if shock is also being applied in the deep end of pool.

**WINTERIZING TREATMENT** (Not for use in CA.): When swimming pool season is over, add 7.7 oz. of this product per 15,000 gal. of water {(or equivalent use dilution)} left in pool. This dose helps provide a measure of control of algae growth during the winter months.

{Clean pool water line, shut down filter, drain pump and winterize as per manufacturer’s instructions. Cover pool with solid cover, if possible. Pools without a solid cover may need a second treatment later in the non-swimming season.}

**FOR ALGAE TREATMENT OF [{(OUTDOOR)} {SPAS} {WHIRPOOLS} {HOT {TUBS} {BATHS}}] (Not for use in CA for outdoor use.):**

**Initial Dose:** Add 2.6 oz. of this product per 5,000 gal. of pool water {(or equivalent use dilution)}. Initial dose is used upon filling of [{spa} {whirlpool} {hot {tub} {bath}}].

**Maintenance Dose:** Add 0.65 oz. of this product per 5,000 gal. of water {(or equivalent use dilution)}. Maintenance dose should be added at 3 – 5 day intervals. If high temperatures prevail or [{spa} {whirlpool} {hot {tub} {bath}}] has unusually heavy use, add maintenance dose more frequently. Drain and clean spa/whirlpool/hot tub bath at least once a month or as needed depending on bather load.

**BIRD BATHS:** DO NOT use when fish are present. Clean to remove algae growth prior to filling birdbath and spray the exposed surface with a solution of 0.2 oz. of this product per gallon of water {(or equivalent use dilution)}. Allow to air dry and brush off dead algae.

**WALKWAYS** (Not for use in CA.): This product will inhibit the growth of algae on walkways. For heavy infestations, spray or swab surface with a solution of 1.0 oz. of this product per 5 gal. of water {(or equivalent use dilution)}. Let stand for an hour or more then brush and wash away dead algae. Soak area again with the solution. Do not rinse. Allow to dry on the surface and repeat application when algae growth returns. For sprayer applications, use as a coarse spray only. Allow surfaces to remain wet for 10 minutes then air dry. Prepare a fresh solution daily or when visibly dirty.

(Note to Reviewer: The description of "Containerized" must be used for products registered/sold into CA.)

{FOUNTAIN AND POOL TREATMENT DILUTION TABLE: (Note to Reviewer: This DILUTION TABLE is optional.)}

Fountain or Pool Capacity gal. of Water	Initial Treatment	Maintenance Dose Booster Dose
195	0.1 oz.	0.025 oz.
390	0.2 oz.	0.05 oz.
781	0.4 oz.	0.1 oz.
1,562	0.8 oz.	0.2 oz.
3,125	1.6 oz.	0.4 oz.
6,250	3.2 oz.	0.8 oz.
12,500	6.4 oz.	1.6 oz.
25,000	12.8 oz.	3.2 oz.

**FOR ALGAE TREATMENT OF {CONTAINERIZED} DECORATIVE POOL APPLICATIONS:**

Remove floating type algae by raking, dragging with cable or chain, skimming, or any other suitable method. {It is more economical to remove floating type algae before the water is treated.}

**Initial Dosage:** Add 6.4 oz. of this product per 12,500 gal. of water {(or equivalent use dilution)} at any point that is convenient, such as the bowl, pool, or sump.

**Weekly Maintenance:** Add ~~1.63~~ 2 oz. of this product per 12, 500 gal. of water {(or equivalent use dilution)} every 3 – 5 days or as to maintain 0.5 ppm active. Each month drain and clean bowl. Refill with fresh water and repeat initial treatment. Draining removes airborne dirt, dust, contamination and alkali build-up.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage and disposal.

**{PESTICIDE} STORAGE:** Store only in original container. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING:**

(Note to Reviewer: One or more of the following paragraphs for Container Handling will be selected, depending on packaging use/type.)

{For non-refillable containers equal to or less than 5 gal.}

Non-Refillable Container. Do not reuse or refill this container. Triple rinse container {(or equivalent)} promptly after emptying. Triple rinse as follows: Fill the container ¼ full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

{For non-refillable containers greater than 5 gal.}

Non-Refillable Container. Do not reuse or refill this container. Triple rinse container {(or equivalent)} promptly after emptying. Triple rinse as follows: Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Turn the container over onto its other end and tip back and forth several times. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

{Refillable containers}

Refillable Container. Refill this container with this product only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal empty the remaining contents from this container into application equipment or a mix tank. Fill container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

  
**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER.** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Do not breathe vapor or spray mist. Wear a NIOSH approved respirator with an organic vapor (OV) cartridge with a combination N, R, or P filter (NIOSH approval number prefix TC-84A). Wear goggles or face shield, chemical-resistant gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

**PHYSICAL OR CHEMICAL HAZARDS**

**Combustible.** Do not use or store near heat or open flame. Do not mix with oxidizers, soap or other anionic materials.

**ENVIRONMENTAL HAZARDS**

*(If container is equal to or greater than 5 gal., the following statement must appear on the label.)*

This product is toxic to fish, aquatic invertebrates, oysters and shrimp. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

*(If container is less than 5 gal., use the following as an alternate to the above statement.)*

This product is toxic to fish, aquatic invertebrates, oysters and shrimp.

  
**{SPANISH ADVISORY STATEMENTS}**

*(Note to Reviewer: This statement is optional except when used on labels with agricultural uses.)*

{SI USTED NO ENTIENDE LA ETIQUETA, BUSQUE A ALGUIEN PARA QUE SE LA EXPLIQUE A USTED EN DETALLE.

IF YOU DO NOT UNDERSTAND THE LABEL, FIND SOMEONE TO EXPLAIN IT TO YOU IN DETAIL.}

  
**GRAPHICS AND ICONS**

*(Note to Reviewer: These are representative icons for use sites/application methods that may appear on the label with the appropriate directions for use, PPE or package type.)*

{Baby Drowning in Bucket  
Warning Graphic}

{Made in USA Logo/Flag}

{Recycling Logo}

{Mixing Chemical Warning  
Graphic}

  
**{WARRANTY STATEMENT}**

*(Note to Reviewer: This statement is optional.)*

Read Product Material Safety Data Sheet prior to use, PRODUCT WARRANTY, DISCLAIMER AND LIMITATION OF LIABILITY ARE FOUND on the Product Material Safety Data Sheet. Unless inconsistent with applicable law, use of Product signifies agreement with these provisions.

Lea la Hoja de Seguridad del Producto antes de usarlo. LA GARANTIA DEL PRODUCTO, DECLINACION Y LIMITACION DE RESPONSABILIDAD SE ENCUENTRAN en la Hoja de Seguridad del Producto. A menos de que sea inconsistence con la ley, el uso del product signigica acuerdo con estas disposiconies.